CICS Advanced Application Programming Workshop

Course Summary

Description

This course is designed for students who desire a more in depth understanding of application performance considerations and more sophisticated CICS/TS features. This course can be taught at the current release of CICS/TS or any previous release based on the client's needs.

Objectives

Upon completion of this course, the student should be able to:

- Be able to utilize BMS mapping techniques to reduce line transmission traffic
- Understand when and why to use "Locate Mode" I/O
- Understand techniques to reduce file contention
- Use techniques for additional storage (Getmain, TWA, CSA, TCTUA)
- When and how to utilize temporary storage
- Use automatic task initiation through transient data and interval control
- Utilize efficient error handling techniques and ABEND trapping
- Create the mapset and application code to implement the BMS paging facility

Topics

- BMS map transmission
- File I/O efficiency considerations
- Utilizing dynamic storage areas
- Temporary storage processing
- Transient data processing
- Exception processing
- Interval control functions
- BMS paging

Audience

This course is designed for application programmers and analysts.

Duration

Four days

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Course Outline

I. BMS Map Transmission
- A. Dataonly
- B. Maponly, shadow mapping, MDT concepts
- C. FRSET concept
- D. minimizing FSETs
- E. DFHAID vs. handle aid

II. File I/O Efficiency Considerations
- A. Locate mode vs. move mode
- B. CISIZE considerations
- C. Record locking
- D. DTB
- E. Logging
- F. Journalling
- G. Syncpoint
- H. ENQ
- I. DEQ

III. Utilizing Dynamic Storage Areas
- A. Getmain
- B. Commarea concepts
- C. TWA
- D. TCTUA
- E. CWA
- F. ASSIGN
- G. ADDRESS

IV. Temporary Storage Processing
- A. Main vs. aux
- B. Locate mode

V. Transient Data Processing
- A. Automatic task initiation
- B. Batch job submission

VI. Exception Processing
- A RESP and NOHANDLE vs. handle conditions and ignore conditions
- B. Handle abend
- C. Abend vs. dump

VII. Interval Control Functions
- A. Automatic task initiation
- B. Start
- C. Retrieve
- D. Delay
- E. Suspend

VIII. BMS Paging
- A. Mapset and map definitions
- B. Application code considerations

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